

Argo-KOREA Annual Report 2016

by Korea Meteorological Administration

18th Argo Steering Team Meeting(AST-18)
Hobart, Tasmania, Australia, 13-17 March 2017

1. Status of Implementation

The Korea Meteorological Administration (KMA) and Korea Institute of Ocean Science & Technology (KIOST, former KORDI) have been involved in the International Argo Program since 2001. KMA has deployed 217 Argo floats in the East Sea of Korea and North Pacific Ocean including 53 active floats as of February 23, 2017. And total 16 floats were deployed in 2016. (10 and 6 floats in July and August, respectively)

-Status of contributions to Argo data management

- netCDF profile files conversion to v.3.1. (realtime data completed)
- netCDF meta, technical and trajectory file conversion to v.3.1. (completed)
- transmission of converted netCDF data to GDAC (France/USA)
- implementing the Argo data format check program.

-Delayed Mode QC

- total 23,028 delayed mode files sent to GDAC during Nov. 2015 to Sept. 2016

2. Present level of (and future prospects for) national funding for Argo including summary of human resources devoted to Argo.

KMA has tried to keep same level of deployment about 16 floats per year. The float number deployed around Korea this year is 13, which is a bit decreased due to the budget decrease.

-Human resources

- The following persons contribute to Argo Korea:
 - KiRyong KANG, Jong-sook PARK, Hyeong-jun JO (KMA)
 - Joon-soo LEE (NIFS)
 - Sung-Dae KIM (KIOST)

3. Summary of deployment plans

KMA has a plan to deploy 13 floats (all APEX float) in 2017, all of which were purchased in 2016. 9 floats will be deployed in the northern part of the East Sea, 2 in the Yellow Sea and 2 in the South Sea of Korea. Since the Yellow Sea and South Sea are relatively shallow (44 m and 101 m in average depth respectively), the feasibility of the Argo float in the shallow area will be checked out, and the role of sea state change in marine weather of west coastal area of Korea could be investigated.

4. Summary of National Research and Operational Uses of Argo data as well as contributions to Argo Regional Centers.

KMA operates the Global Ocean Data Assimilation and Prediction System (GODAPS), based on the NEMO-CICE coupled models and NEMOVAR assimilation. This system has 1/4 degree in horizontal and 75 levels in vertical resolution including the daily cycle with 1-day hindcast and 1-day forecast. Global Argo profiles obtained thru GTS network (TESAC and BUFR formatted data) are assimilated with 24-hour time window. The general information about the KMA Argo program with profiles, track, and number of acting float, etc, can be found at the home page: <http://argo.nims.go.kr>.

5. Issues that your country wishes to be considered (and resolved) by AST regarding the international operation of Argo.

-None

6. CTD data uploaded to CCHDO

No.

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